

MSC Guidelines for Review of Tankship Structural Fire Protection

Procedure Number: T1-23

Revision Date: 02/04/00

References

- a. 46 CFR Subchapter D
- b. International Convention for the Safety of Life at Sea, 1974, and its Protocol of 1978 (SOLAS), as amended
- c. IMO MSC circular 847, Interpretations of vague expressions and other vague wording in SOLAS chapter II-2, June 12, 1998
- d. Navigation and Vessel Inspection Circular (NVIC) 9-97; Guide to Structural Fire Protection
- e. International Code for Application of Fire Test Procedures (FTP Code), IMO Resolution MSC.61(67), 1998.
- f. Marine Safety Manual (MSM), Vol. II, Chapter 9 & 10

Disclaimer

These guidelines were developed by the Marine Safety Center staff as an aid in the preparation and review of vessel plans and submissions. They were developed to supplement existing guidance. They are not intended to substitute or replace laws, regulations, or other official Coast Guard policy documents. The responsibility to demonstrate compliance with all applicable laws and regulations still rests with the plan submitter. The Coast Guard and the U. S. Department of Transportation expressly disclaim liability resulting from the use of this document.

Contact Information

If you have any questions or comments concerning this document, please contact the Marine Safety Center by e-mail or phone. Please refer to the Procedure Number: **T1-23**

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General Review Guidance

- ❑ If the vessel is new and not a sister vessel, has the Application for Inspection been submitted? In general, no plan review will occur until receipt of a copy of the Application.
- ❑ Is it clearly stated what is desired from the MSC? Are all plans requiring Coast Guard review and/or approval submitted in triplicate? Are there any special or unusual requests involved?

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- ❑ Determine if the vessel is operating on an international voyage (see definitions section). If yes, then apply SOLAS requirements listed below.
- ❑ Verify applicability of regulations in 46 CFR 30.01-5, and whether all anticipated cargoes are regulated under Subchapter D.
- ❑ As stated in 46 CFR 32.56-1, SOLAS certificated vessels may be considered equivalent to the provisions of Subchapter D SFP requirements. Thus, compliance with SOLAS regulations will satisfy the 46 CFR Subchapter D requirements.
- ❑ Check that the following items are submitted:
 - ❑ Insulation schedule
 - ❑ Fire Protection plans of A/B class bulkheads and decks
 - ❑ Ventilation Arrangements
- ❑ For tankships not on international voyages, with a keel laying date on or after January 1, 1975, ensure the following requirements are met:
 - ❑ Insulation of exterior boundaries, superstructures and deckhouses. 46 CFR 32.56-20
 - ❑ Openings in exterior boundaries, accommodation, service, and control spaces. 46 CFR 32.56-21
 - ❑ Openings in and insulation of boundaries, other spaces. 46 CFR 32.56-22.
 - ❑ Category A machinery spaces, windows and port lights. 46 CFR 32.56-25
 - ❑ Category A machinery spaces, bulkheads and decks. 46 CFR 32.56-30
 - ❑ Doors. 46 CFR 32.56-35
 - ❑ Category A machinery spaces, insulation. 46 CFR 32.56-40
 - ❑ Combustible veneers. 46 CFR 32.56-50
 - ❑ Control spaces. 46 CFR 32.56-55
 - ❑ Ventilation ducts. 46 CFR 32.56-60
- ❑ For tankships on international voyages, ensure compliance with the following SOLAS II-2 regulations:

| | |
|-----|---------------------|
| 42 | Structure |
| 1 | steel construction |
| 2,3 | aluminum structures |

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- 5 method determination
- 46 Protection of stairways and lift trunks in accommodation spaces, service spaces and control stations
 - 1 stairways and doors, relative to deck penetration
- 47 Doors in fire-resisting divisions
 - 1 door fire integrity and construction
- 48 Ventilation systems → II-2/16 (except para. 8)
- (16)
 - 1 duct material and sizing
 - 2 penetration sleeves
 - 3,4 duct passage limitations
 - 5 “B” penetration sleeve
 - 6 control stations
 - 7 galley ranges
- 49 Restricted use of combustible materials
- 50 Details of construction
- 56 7.8.3 Exterior boundaries of superstructure and deckhouse
- 57 Bulkheads w/in the accommodation and service spaces
 - 1,2 bulkhead construction
- 58 Fire integrity of bulkheads and decks
 - 1,2 minimum fire integrity
 - Table 58.1: bhds
 - Table 58.2: decks
 - 4 windows

- For tankships on international voyages and with keel-laying dates after July 1, 1998, compliance with the FTP Code, as cited within SOLAS, is mandatory. In particular, any SFP arrangements that deviate from specified SOLAS construction standards, are acceptable only if the alternative arrangement is proven to meet the FTP Code.

Definitions

International Voyage: A voyage from a country to which the present Convention applies to a port outside such country, or conversely. (See SOLAS Chapter I, Part A, Regulation 2(d).)